

Abstract of the Disclosure:

Reduction of cogging torque and torque pulsation in  
5 the rotor with permanent magnets embedded therein. In a  
rotating electrical machine comprising a stator 5 with an  
armature winding wound on the stator core and a rotor 1  
with permanent magnet 2 embedded in the rotor core 9, a  
magnetic flux short circuit preventive hole 3 radially  
10 extending from the circumferential ends of the permanent  
magnets 2 (in the vicinity of q-axis) to the vicinity of  
outer periphery of the rotor core is further extended  
toward the d-axis (circumferential direction). At the  
same time, the distance between the outer periphery of the  
15 magnetic flux short circuit preventive hole 3 and that of  
the rotor core is increased gradually in conformity to the  
approach to d-axis side from q-axis.

[Selected Figure] Fig. 1